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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/842,440	04/26/2001	Ulrich A. Muller	10366-012	7500
9629 7:	590 12/14/2006		EXAMINER	
MORGAN LEWIS' & BOCKIUS LLP			MILEF, ELDA G	
1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			ART UNIT	PAPER NUMBER
	,		3692	· · · · · · · · · · · · · · · · · · ·
			DATE MAILED: 12/14/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Ossi e Andina Cumana and	09/842,440	MULLER, ULRICH A.			
Office Action Summary	Examiner	Art Unit			
	Elda Milef	3692			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period was period to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDON	on.  timely filed  m the mailing date of this communication.  IED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 18 O	ctoher 2006				
	action is non-final.				
, <del></del>					
closed in accordance with the practice under E					
Disposition of Claims					
4)⊠ Claim(s) <u>1-19</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-19</u> is/are rejected.					
7) Claim(s) <u>3-6, 9, 14, 16-17</u> is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.				
Application Papers	•				
9) The specification is objected to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ acce		e Examiner.			
Applicant may not request that any objection to the					
Replacement drawing sheet(s) including the correct		·			
11) The oath or declaration is objected to by the Ex	aminer. Note the attached Offic	e Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(	a)-(d) or (f).			
1. Certified copies of the priority documents	s have been received.				
2. Certified copies of the priority documents		ation No			
3. Copies of the certified copies of the prior					
application from the International Bureau	u (PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list	of the certified copies not receive	ved.			
Attachment(s)		•			
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summa				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail 5) Notice of Informal	Date  Patent Application			
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	6)  Other:	т акти гурновичн			

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#### DETAILED ACTION

# Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

1. Claims 1-19 are rejected under 35 U.S.C. 101 because the steps of testing data do not provide a practical application of an idea resulting in a useful, concrete, and tangible result. The claimed invention relates to testing data for decimal, scaling, domain, and for credibility of data. Accordingly, a tangible and useful result is not realized and the claims are therefore rejected under 35 U.S.C. 101. See MPEP § 2106 II (A), and State Street, 149 F.3d at 1373, 47 USPQ2d at 1601-02.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.

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2. Claims 1, 2, 7, 8, 10-13, 15, 18,19 are rejected under 35 U.S.C. 102(a) as being anticipated by Dacorogna (Dacorogna, Michel M.; Muller, Ulrich A. Muller, Olivier V. Pictet, Casper G. DeVries. The Distribution of Extremal Foreign Exchange Rate Returns in Extremely Large Data Sets. O&A Research Group: June 28, 1995.)

Re claims 1,11,12: Dacorogna disclose a method of filtering time series data ("Data set construction and data filters") pp. 14-17; comprising the steps of:

testing said data for decimal error-see ("decimal error filter")-pp.14-15;

testing said data for scaling error-see ("bid price filter") p. 14;

testing said data for domain error-see ("spread filter) pp. 15-16;

testing for credibility of said data that passes the tests for decimal error, scaling error and domain error by comparing nearby data in the time series.—see (decimal error, bid price, and spread filters, the application of weak and strong filters, tail statistics study...) pp.15-16.

Re claims 2 & 13: Dacorogna disclose a step of detecting a monotonic series of quotes. ("data in the form of a time series which is equally spaced in time...")-see p. 16 para. 2.

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Re claims 7,8, 18,19: Dacorogna disclose testing for decimal error comprises computed a corrected quote, and testing the corrected quote for validity, credibility and comparing the credibility of the corrected quote with the credibility of the original quote.-see pp.14-16.

Re claims 10 & 15: Dacorogna disclose wherein a quote is tested relative to a series of quotes within a time window. ( $\Delta t$ ) p. 15.

# Allowable Subject Matter

3. Claims 3-6, 9, 14, 16-17 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims and the 35 USC § 101 rejection overcome.

### Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elda Milef whose telephone number is (571)272-8124. The examiner can normally be reached on Monday -Thursday 8:30 am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Chilcot can be reached on (571)272-6777. The fax phone number for the

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organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Elda Milef Examiner Art Unit 3692

\* \* \*

RICHARD E. CHILCOT, JR.
SUPERVISORY PATENT EXAMINER